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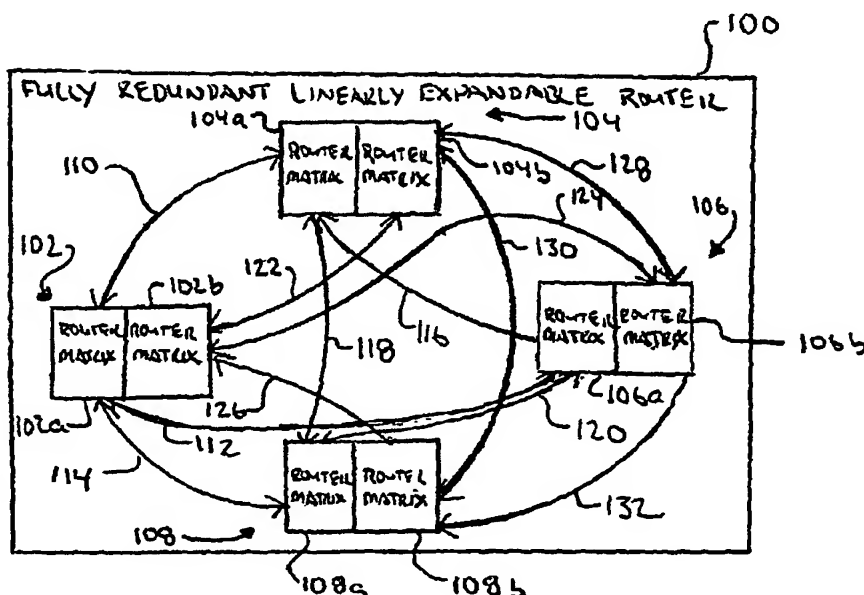
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(54) Title: BROADCAST ROUTER HAVING A SERIAL DIGITAL AUDIO DATA STREAM DECODER



(57) Abstract: A bi-phase decoder (296-1) suitable for use in a broadcast router (100) and an associated method for extracting subframes of digital audio data from a stream of digital audio data. Logical circuitry (298) within the bi-phase decoder (296) extracts subframes of the digital audio data by constructing a transition window from an estimated bit time, sampling the stream of digital audio data using a fast clock and applying the sampled stream of digital audio data to the transition window to identify transitions indicative of preambles of the subframes of digital audio data.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19389

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G10L 19/00

US CL : 704/501

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 704/501, 229, 230, 500, 219; 381/103, 94.4; 375/220, 377, 355

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,245,667 A (LEW) 14 September 1993, Figure 3, Col. 2, line 13 - Col. 3, line 38, Col. 5, line 18 - Col. 7, line 35	1-22
Y	US 5,258,999 A (WERNIMONT et al.) 02 November 1993, Figures 3-5, Col. 6, line 5 - Col. 16, line 49.	1-22
Y	US 5,727,074 A (HILDEBRAND) 10 March 1998, Figures 1-9, Col. 8, line 40 - Col. 14, line 58.	1-22
Y	US 6,104,996 A (YIN) 15 August 2000, Figures 3, 9, Col. 7, line 50 - Col. 9, line 58.	1-22
Y	US 5,227,990 A (VAUPER et al.) 13 July 1993, Figure 1, Col. 3, line 61 - Col. 5, line 10	1-22

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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- "&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

WEST, PLUS

search terms: audio, tranition, window, sub window, compress, intermediate